

SEQUENCE LISTING

<110> Blaschuk, Orest W.
Michaud, Stephanie D.

<120> COMPOUNDS AND METHODS FOR MODULATING
FUNCTIONS OF NONCLASSICAL CADHERINS

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<140> US 10/714,564
<141> 2003-11-14

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<223> Exemplary Trp-containing CAR sequences for atypical cadherins

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Val Trp Asn Gln
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Met Trp Asn Gln
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Met Trp Asn Gln Phe
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Met Trp Asn Gln Phe Phe
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<223> Consensus sequence shared by certain desmosomal
cadherin Trp-containing CAR sequence

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<223> Xaa = Glu, Ala or Arg

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Xaa Trp Xaa Xaa Xaa Xaa
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<223> Representative desmosomal cadherin Trp-containing
CAR sequence

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CAR sequence

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CAR sequence

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Glu Trp Ile Lys Phe Ala Ala

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Glu Trp Ile Lys Phe Ala Ala Ala

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Glu Trp Ile Lys Phe Ala Ala Ala Cys

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Trp Ile Lys Phe

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Trp Ile Lys Phe Ala

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<223> Exemplary cyclic peptide

<400> 1289

Glu Trp Val Lys Phe Lys

1 5

<210> 1290

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1290

Glu Trp Val Lys Phe Ala Lys Lys

1 5

<210> 1291

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1291

Glu Trp Val Lys Phe Ala Lys Pro Lys

1 5

<210> 1292

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1292
 Glu Trp Val Lys Phe Ala Lys Pro Cys Lys
 1 5 10

<210> 1293
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary cyclic peptide

<400> 1293
 Glu Ala Trp Ile Lys
 1 5

<210> 1294
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary cyclic peptide

<400> 1294
 Glu Ala Trp Ile Thr Lys
 1 5

<210> 1295
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Exemplary cyclic peptide

<400> 1295
 Glu Ala Trp Ile Thr Ala Lys
 1 5

<210> 1296
 <211> 8
 <212> PRT
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<220>
 <223> Exemplary cyclic peptide

<400> 1296
 Glu Ala Trp Ile Thr Ala Pro Lys
 1 5

<210> 1297
 <211> 9
 <212> PRT
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<220>
 <223> Exemplary cyclic peptide

<400> 1297
 Glu Ala Trp Ile Thr Ala Pro Val Lys
 1 5

<210> 1298
 <211> 10
 <212> PRT
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<220>
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<400> 1298
 Glu Ala Trp Ile Thr Ala Pro Val Ala Lys
 1 5 10

<210> 1299
 <211> 11
 <212> PRT
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<220>
 <223> Exemplary cyclic peptide

<400> 1299
 Glu Ala Trp Ile Thr Ala Pro Val Ala Leu Lys
 1 5 10

<210> 1300
 <211> 5
 <212> PRT
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<220>
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<400> 1300
 Glu Trp Ile Thr Lys
 1 5

<210> 1301
 <211> 6

<212> PRT
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<220>
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<400> 1301
Glu Trp Ile Thr Ala Lys
1 5

<210> 1302
<211> 7
<212> PRT
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<220>
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<400> 1302
Glu Trp Ile Thr Ala Pro Lys
1 5

<210> 1303
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1303
Glu Trp Ile Thr Ala Pro Val Lys
1 5

<210> 1304
<211> 9
<212> PRT
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<220>
<223> Exemplary cyclic peptide

<400> 1304
Glu Trp Ile Thr Ala Pro Val Ala Lys
1 5

<210> 1305
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1305

Glu Trp Ile Thr Ala Pro Val Ala Leu Lys
1 5 10

<210> 1306

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a
modulating agent

<400> 1306

Tyr Ile Gly Ser Arg
1 5

<210> 1307

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a
modulating agent

<400> 1307

Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
1 5 10

<210> 1308

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a
modulating agent

<400> 1308

Ser Phe Thr Ile Asp Pro Lys Ser Gly
1 5

<210> 1309

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a

modulating agent

<400> 1309

Leu Tyr His Tyr

1

<210> 1310

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Claudin CAR sequence comprising at least four consecutive amino acids present within a claudin region

<220>

<221> VARIANT

<222> 2

<223> Xaa = Lys or Arg

<220>

<221> VARIANT

<222> 3

<223> Xaa = any amino acid

<220>

<221> VARIANT

<222> 4

<223> Xaa = any amino acid

<220>

<221> VARIANT

<222> 5

<223> Xaa = Ser or Ala

<220>

<221> VARIANT

<222> 6

<223> Xaa = Tyr or Phe

<220>

<221> VARIANT

<222> 7

<223> Xaa = any amino acid

<400> 1310

Trp Xaa Xaa Xaa Xaa Xaa Xaa Gly

1

5

<210> 1311

<211> 9

<212> PRT

<213> Artificial Sequence

<220>
 <223> Atypical cadherin CAR sequence comprising at least
 three consecutive amino acids present within an
 atypical cadherin region

<220>
 <221> VARIANT
 <222> 1,3
 <223> Xaa = any amino acid

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Ile, Leu or Val

<220>
 <221> VARIANT
 <222> 5
 <223> Xaa = Asp, Asn or Glu

<220>
 <221> VARIANT
 <222> 6,7
 <223> Xaa = any amino acid

<220>
 <221> VARIANT
 <222> 8
 <223> Xaa = Ser, Thr or Asn

<400> 1311
 Xaa Phe Xaa Xaa Xaa Xaa Xaa Gly
 1 5

<210> 1312
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Representative claudin CAR sequence

<400> 1312
 Ile Tyr Ser Tyr
 1

<210> 1313
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Representative claudin CAR sequence

<400> 1313
 Thr Ser Ser Tyr
 1

<210> 1314
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Representative claudin CAR sequence

<400> 1314
 Val Thr Ala Phe
 1

<210> 1315
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Representative claudin CAR sequence

<400> 1315
 Val Ser Ala Phe
 1

<210> 1316
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1316
 Cys Gly Trp Val Met Asn Gln Gly Trp Val Met Asn Gln Cys
 1 5 10

<210> 1317
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1317

Cys Arg Trp Ala Pro Ile Pro Arg Trp Ala Pro Ile Pro Cys
 1 5 10

<210> 1318
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1318
 Cys Gly Trp Val Met Asn Gln Gln Asn Met Val Trp Gly Cys
 1 5 10

<210> 1319
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1319
 Cys Gln Asn Met Val Trp Gly Gly Trp Val Met Asn Gln Cys
 1 5 10

<210> 1320
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1320
 Cys Arg Trp Ala Pro Ile Pro Pro Ile Pro Ala Trp Arg Cys
 1 5 10

<210> 1321
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1321

Cys Pro Ile Pro Ala Trp Arg Arg Trp Ala Pro Ile Pro Cys
 1 5 10

<210> 1322
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<400> 1322
 Cys Gly Trp Val Cys
 1 5

<210> 1323
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<400> 1323
 Cys Gly Trp Val Trp Asn Gln Cys
 1 5

<210> 1324
 <211> 7
 <212> PRT
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<220>
 <223> Peptide used in cyclization

<400> 1324
 Cys Gly Trp Val Trp Asn Cys
 1 5

<210> 1325
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<400> 1325
 Cys Arg Gly Trp Val Cys
 1 5

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<210> 1326
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1326
Cys Arg Gly Trp Val Trp Cys
1             5

<210> 1327
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1327
Cys Gly Trp Val Cys Asn
1             5

<210> 1328
<211> 4
<212> PRT
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<220>
<223> Peptide used in cyclization

<400> 1328
Cys Gly Trp Val
1

<210> 1329
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1329
Cys Arg Gly Trp Val Trp Asn Gln Phe Cys
1             5             10

<210> 1330
<211> 11
<212> PRT
<213> Artificial Sequence

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<220>
<223> Peptide used in cyclization

<400> 1330
Cys Arg Gly Trp Val Trp Asn Gln Phe Phe Cys
 1             5             10

<210> 1331
<211> 10
<212> PRT
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<220>
<223> Peptide used in cyclization

<220>
<221> MOD_RES
<222> 2
<223> Xaa = beta,beta-tetramethylene cysteine

<400> 1331
Ile Xaa Gly Trp Val Trp Asn Gln Cys Glu
 1             5             10

<210> 1332
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<220>
<221> MOD_RES
<222> 2
<223> Xaa = beta,beta -pentamethylene cysteine

<400> 1332
Ile Xaa Gly Trp Val Trp Asn Gln Cys
 1             5

<210> 1333
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1333
Gly Trp Val Trp Asn Gln Pro Cys
 1             5

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<210> 1334
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1334
Cys Arg Trp Ala Pro Cys
1 5

<210> 1335
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1335
Cys Arg Trp Ala Pro Ile Pro Cys
1 5

<210> 1336
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1336
Cys Arg Trp Ala Pro Ile Cys
1 5

<210> 1337
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1337
Cys Arg Trp Ala Pro Ile Pro Cys Cys
1 5

<210> 1338
<211> 11

<212> PRT
 <213> Artificial Sequence
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 <223> Peptide used in cyclization
 <400> 1338
 Cys Arg Trp Ala Pro Ile Pro Cys Ser Cys Met
 1 5 10

<210> 1339
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization
 <400> 1339
 Cys Arg Trp Ala Cys Asn
 1 5

<210> 1340
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<220>
 <221> MOD_RES
 <222> 5
 <223> Xaa = penicillamine

<400> 1340
 Cys Arg Trp Ala Xaa
 1 5

<210> 1341
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<400> 1341
 Cys Arg Trp Ala Pro Ile Pro Cys Ser Cys
 1 5 10

<210> 1342

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<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1342
Cys Arg Trp Ala Pro Ile Pro Cys Ser Met Cys
 1           5           10

<210> 1343
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<220>
<221> MOD_RES
<222> 2
<223> Xaa = beta,beta-tetramethylene cysteine

<400> 1343
Ile Xaa Arg Trp Ala Pro Ile Pro Cys Glu
 1           5           10

<210> 1344
<211> 9
<212> PRT
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<220>
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<220>
<221> MOD_RES
<222> 2
<223> Xaa = beta,beta-pentamethylene cysteine

<400> 1344
Ile Xaa Arg Trp Ala Pro Ile Pro Cys
 1           5

<210> 1345
<211> 8
<212> PRT
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<220>
<223> Peptide used in cyclization

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<400> 1345
Arg Trp Ala Pro Ile Pro Cys Cys
1 5

<210> 1346
<211> 8
<212> PRT
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<220>
<223> Peptide used in cyclization

<400> 1346
Lys Arg Trp Ala Pro Ile Pro Asp
1 5

<210> 1347
<211> 4
<212> PRT
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<220>
<223> Peptide used in cyclization process

<400> 1347
Glu Asp Ala Cys
1

<210> 1348
<211> 4
<212> PRT
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<220>
<223> Peptide used in cyclization process

<400> 1348
Asp Cys Cys Ile
1

<210> 1349
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Modulating agent

<400> 1349
Ser His Ala Val Ser Ser
1 5

<210> 1350
 <211> 6
 <212> PRT
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<220>
 <223> Modulating agent

<400> 1350
 Ala His Ala Val Asp Ile
 1 5

<210> 1351
 <211> 15
 <212> PRT
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<220>
 <223> N-cadherin CAR sequence

<400> 1351
 Phe His Leu Arg Ala His Ala Val Asp Ile Asn Gly Asn Gln Val
 1 5 10 15

<210> 1352
 <211> 48
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Occludin CAR sequence

<400> 1352
 Gly Val Asn Pro Thr Ala Gln Ser Ser Gly Ser Leu Tyr Gly Ser Gln
 1 5 10 15
 Ile Tyr Ala Leu Cys Asn Gln Phe Tyr Thr Pro Ala Ala Thr Gly Leu
 20 25 30
 Tyr Val Asp Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu
 35 40 45

<210> 1353
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing cell adhesion recognition sequence

<400> 1353
 Gly Trp Val Trp Asn Gln
 1 5

<210> 1354
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing cell adhesion recognition sequence

<400> 1354
Asp Trp Ile Trp Asn Gln
1 5

<210> 1355
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing cell adhesion recognition sequence

<400> 1355
Ser Trp Met Trp Asn Gln
1 5

<210> 1356
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing cell adhesion recognition sequence

<400> 1356
Trp Val Asn Gln
1

<210> 1357
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Trp-containing cell adhesion recognition sequence

<400> 1357
Gly Trp Met Trp Asn Gln
1 5

<210> 1358
<211> 4
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<213> Artificial Sequence
 <220>
 <223> Calcium binding motif
 <400> 1358
 Asp Val Asn Glu
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<210> 1359
 <211> 5
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Calcium binding motif
 <400> 1359
 Asp Ile Asn Asp Asn
 1 5

<210> 1360
 <211> 5
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Calcium binding motif
 <400> 1360
 Asp Val Asn Asp Asn
 1 5

<210> 1361
 <211> 4
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Calcium binding motif
 <400> 1361
 Val Asp Phe Glu
 1

<210> 1362
 <211> 4
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Calcium binding motif

<400> 1362
Asp Ala Asp Glu
1

<210> 1363
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1363
Asp Val Asp Glu
1

<210> 1364
<211> 5
<212> PRT
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<220>
<223> Calcium binding motif

<400> 1364
Asp Glu Asn Asp Asn
1 5

<210> 1365
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1365
Asp Val Asn Asp Glu
1 5

<210> 1366
<211> 4
<212> PRT
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<220>
<223> Calcium binding motif

<400> 1366
Leu Asn Tyr Glu
1

<210> 1367
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1367
Asp Gln Asn Asp Asn
1 5

<210> 1368
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1368
Asp Thr Asn Glu
1

<210> 1369
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1369
Glu Val Asn Glu
1

<210> 1370
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1370
Asp Ile Asn Asp
1

<210> 1371
<211> 110

<212> PRT
 <213> unknown

<220>
 <223> Obcad sequence

<400> 1371
 Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu
 1 5 10 15
 Tyr Thr Gly Pro Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile
 20 25 30
 Asp Ser Gly Asp Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
 35 40 45
 Gly Thr Ile Phe Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr
 50 55 60
 Lys Thr Leu Asp Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln
 65 70 75 80
 Ala Val Asp Arg Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe
 85 90 95
 Ile Val Lys Val Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
 100 105 110

<210> 1372
 <211> 108
 <212> PRT
 <213> Unknown

<220>
 <223> Cad5 sequence

<400> 1372
 Arg Gln Lys Arg Asp Trp Ile Trp Asn Gln Met His Ile Asp Glu Glu
 1 5 10 15
 Lys Asn Thr Ser Leu Pro His His Val Gly Lys Ile Lys Ser Ser Val
 20 25 30
 Ser Arg Lys Asn Ala Lys Tyr Leu Leu Lys Gly Glu Tyr Val Gly Lys
 35 40 45
 Val Phe Arg Val Asp Ala Glu Thr Gly Asp Val Phe Ala Ile Glu Arg
 50 55 60
 Leu Asp Arg Glu Asn Ile Ser Glu Tyr His Leu Thr Ala Val Ile Val
 65 70 75 80
 Asp Lys Asp Thr Gly Glu Asn Leu Glu Thr Pro Ser Ser Phe Thr Ile
 85 90 95
 Lys Val His Asp Val Asn Asp Asn Trp Pro Val Phe
 100 105

<210> 1373
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> Cad6 sequence

<400> 1373

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Arg Ser Lys Arg Ser Trp Met Trp Asn Gln Phe Phe Leu Leu Glu Glu
 1          5          10          15
Tyr Thr Gly Ser Asp Tyr Gln Tyr Val Gly Lys Leu His Ser Asp Gln
          20          25          30
Asp Arg Gly Asp Gly Ser Leu Lys Tyr Ile Leu Ser Gly Asp Gly Ala
 35          40          45
Gly Asp Leu Phe Ile Ile Asn Glu Asn Thr Gly Asp Ile Gln Ala Thr
 50          55          60
Lys Arg Leu Asp Arg Glu Glu Lys Pro Val Tyr Ile Leu Arg Ala Gln
 65          70          75          80
Ala Ile Asn Arg Arg Thr Gly Arg Pro Val Glu Pro Glu Ser Glu Phe
          85          90          95
Ile Ile Lys Ile His Asp Ile Asn Asp Asn Glu Pro Ile Phe
          100          105          110

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<210> 1374

<211> 110

<212> PRT

<213> unknown

<220>

<223> Cad7 sequence

<400> 1374

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Arg Thr Lys Arg Ser Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
 1          5          10          15
Tyr Met Gly Ser Asp Pro Leu Tyr Val Gly Lys Leu His Ser Asp Val
          20          25          30
Asp Lys Gly Asp Gly Ser Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
 35          40          45
Ser Ser Ile Phe Ile Ile Asp Glu Asn Thr Gly Asp Ile His Ala Thr
 50          55          60
Lys Arg Leu Asp Arg Glu Glu Gln Ala Tyr Tyr Thr Leu Arg Ala Gln
 65          70          75          80
Ala His Asp Arg Leu Thr Asn Lys Pro Val Glu Pro Glu Ser Glu Phe
          85          90          95
Val Ile Lys Ile Gln Asp Ile Asn Asp Asn Glu Pro Lys Phe
          100          105          110

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<210> 1375

<211> 110

<212> PRT

<213> unknown

<220>

<223> Cad8 sequence

<400> 1375

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Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Met Phe Val Leu Glu Glu
 1          5          10          15
Phe Ser Gly Pro Glu Pro Ile Leu Val Gly Arg Leu His Thr Asp Leu
          20          25          30
Asp Pro Gly Ser Lys Lys Ile Lys Tyr Ile Leu Ser Gly Asp Gly Ala

```

```

          35              40              45
Gly Thr Ile Phe Gln Ile Asn Asp Val Thr Gly Asp Ile His Ala Ile
  50          55          60
Lys Arg Leu Asp Arg Glu Lys Ala Glu Tyr Thr Leu Thr Ala Gln
65          70          75          80
Ala Val Asp Trp Glu Thr Ser Lys Pro Leu Glu Pro Pro Ser Glu Phe
          85          90          95
Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Ala Pro Glu Phe
          100          105          110

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<210> 1376

<211> 110

<212> PRT

<213> unknown

<220>

<223> Cad12 sequence

<400> 1376

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Arg Val Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
  1          5          10          15
Tyr Val Gly Ser Glu Pro Gln Tyr Val Gly Lys Leu His Ser Asp Leu
          20          25          30
Asp Lys Gly Glu Gly Thr Val Lys Tyr Thr Leu Ser Gly Asp Gly Ala
          35          40          45
Gly Thr Val Phe Thr Ile Asp Glu Thr Thr Gly Asp Ile His Ala Ile
          50          55          60
Arg Ser Leu Asp Arg Glu Glu Lys Pro Phe Tyr Thr Leu Arg Ala Gln
65          70          75          80
Ala Val Asp Ile Glu Thr Arg Lys Pro Leu Glu Pro Glu Ser Glu Phe
          85          90          95
Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Glu Pro Lys Phe
          100          105          110

```

<210> 1377

<211> 110

<212> PRT

<213> unknown

<220>

<223> Cad14 sequence

<400> 1377

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Arg Pro Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
  1          5          10          15
His Met Gly Pro Asp Pro Gln Tyr Val Gly Lys Leu His Ser Asn Ser
          20          25          30
Asp Lys Gly Asp Gly Ser Val Lys Tyr Ile Leu Thr Gly Glu Gly Ala
          35          40          45
Gly Thr Ile Phe Ile Ile Asp Asp Thr Thr Gly Asp Ile His Ser Thr
          50          55          60
Lys Ser Leu Asp Arg Glu Gln Lys Thr His Tyr Val Leu His Ala Gln
65          70          75          80
Ala Ile Asp Arg Arg Thr Asn Lys Pro Leu Glu Pro Glu Ser Glu Phe

```


			85					90			95
Ile	Ile	Lys	Val	Gln	Asp	Ile	Asn	Asp	Asn	Ala	Pro
			100					105			
											Phe
											110

<210> 1378
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> PBcad sequence

<400> 1378
 Arg Val Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Val Glu Glu
 1 5 10 15
 Tyr Thr Gly Thr Glu Pro Leu Tyr Val Gly Lys Ile His Ser Asp Ser
 20 25 30
 Asp Glu Gly Asp Gly Thr Ile Lys Tyr Thr Ile Ser Gly Glu Gly Ala
 35 40 45
 Gly Thr Ile Phe Leu Ile Asp Glu Leu Thr Gly Asp Ile His Ala Thr
 50 55 60
 Glu Arg Leu Asp Arg Glu Gln Lys Thr Phe Tyr Thr Leu Arg Ala Gln
 65 70 75 80
 Ala Arg Asp Arg Ala Thr Asn Arg Leu Leu Glu Pro Glu Ser Glu Phe
 85 90 95
 Ile Ile Lys Val Gln Asp Ile Asn Asp Ser Glu Pro Arg Phe
 100 105 110

<210> 1379
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1379
 Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro
 1 5 10 15
 Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp
 20 25 30
 Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe
 35 40 45
 Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp
 50 55 60
 Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg
 65 70 75 80
 Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val
 85 90 95
 Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
 100 105

<210> 1380
 <211> 106
 <212> PRT
 <213> Mus musculus

```

<400> 1380
Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro
 1              5              10              15
Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp
      20              25              30
Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe
      35              40              45
Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp
      50              55              60
Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg
65              70              75              80
Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val
      85              90              95
Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
      100              105

```

```

<210> 1381
<211> 4
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Calcium binding motif

```

```

<400> 1381
Val Asp Tyr Glu
 1

```

```

<210> 1382
<211> 5
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Calcium binding motif

```

```

<400> 1382
Asp Asp Asn Asp Asn
 1              5

```

```

<210> 1383
<211> 5
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Calcium binding motif

```

```

<400> 1383
Asp Tyr Asn Asp Asn
 1              5

```

<210> 1384
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Calcium binding motif

<400> 1384
 Asp Ser Asn Asp Asn
 1 5

<210> 1385
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1385
 Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
 20 25 30
 Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
 35 40 45
 Gly Ile Phe Val Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
 50 55 60
 Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
 65 70 75 80
 Leu Asn Ser Met Gly Gln Asp Leu Glu Arg Pro Leu Glu Leu Arg Val
 85 90 95
 Arg Val Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
 100 105

<210> 1386
 <211> 108
 <212> PRT
 <213> Bos taurus

<400> 1386
 Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
 20 25 30
 Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
 35 40 45
 Gly Ile Phe Val Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
 50 55 60
 Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
 65 70 75 80
 Leu Asn Ser Leu Gly Gln Asp Leu Glu Lys Pro Leu Glu Leu Arg Val
 85 90 95
 Arg Val Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
 100 105

<210> 1387
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1387
 Ala Trp Ile Thr Ala Pro Val Ala Leu Arg Glu Gly Glu Asp Leu Ser
 1 5 10 15
 Lys Lys Asn Pro Ile Ala Lys Ile His Ser Asp Leu Ala Glu Glu Arg
 20 25 30
 Gly Leu Lys Ile Thr Tyr Lys Tyr Thr Gly Lys Gly Ile Thr Glu Pro
 35 40 45
 Pro Phe Gly Ile Phe Val Phe Asn Lys Asp Thr Gly Glu Leu Asn Val
 50 55 60
 Thr Ser Ile Leu Asp Arg Glu Thr Pro Phe Phe Leu Leu Thr Gly
 65 70 75 80
 Tyr Ala Leu Asp Ala Arg Gly Asn Asn Val Glu Lys Pro Leu Glu Leu
 85 90 95
 Arg Ile Lys Val Leu Asp Ile Asn Asp Asn Glu Pro Val Phe
 100 105 110

<210> 1388
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1388
 Glu Trp Val Lys Phe Ala Lys Pro Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Lys Ile Thr Ser Asp Tyr Gln Ala Thr Gln
 20 25 30
 Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Phe
 35 40 45
 Gly Ile Phe Val Val Asp Lys Asn Thr Gly Asp Ile Asn Ile Thr Ala
 50 55 60
 Ile Val Asp Arg Glu Glu Thr Pro Ser Phe Leu Ile Thr Cys Arg Ala
 65 70 75 80
 Leu Asn Ala Gln Gly Leu Asp Val Glu Lys Pro Leu Ile Leu Thr Val
 85 90 95
 Lys Ile Leu Asp Ile Asn Asp Asn Pro Val Phe
 100 105

<210> 1389
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 1389
 Glu Trp Val Lys Phe Ala Lys Pro Cys Arg Glu Arg Glu Asp Asn Ser
 1 5 10 15
 Arg Arg Asn Pro Ile Ala Lys Ile Thr Ser Asp Phe Gln Lys Asn Gln
 20 25 30

Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Phe
 35 40 45
 Gly Ile Phe Val Val Asp Pro Asn Asn Gly Asp Ile Asn Ile Thr Ala
 50 55 60
 Ile Val Asp Arg Glu Glu Thr Pro Ser Phe Leu Ile Thr Cys Arg Ala
 65 70 75 80
 Leu Asn Ala Leu Gly Gln Asp Val Glu Arg Pro Leu Ile Leu Thr Val
 85 90 95
 Lys Ile Leu Asp Val Asn Asp Asn Pro Pro Ile Phe
 100 105

<210> 1390
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1390
 Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Lys Ile Arg Ser Asp Cys Glu Ser Asn Gln
 20 25 30
 Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Arg Pro Pro Tyr
 35 40 45
 Gly Val Phe Thr Ile Asn Pro Arg Thr Gly Glu Ile Asn Ile Thr Ser
 50 55 60
 Val Val Asp Arg Glu Ile Thr Pro Leu Phe Leu Ile Tyr Cys Arg Ala
 65 70 75 80
 Leu Asn Ser Arg Gly Glu Asp Leu Glu Arg Pro Leu Glu Leu Arg Val
 85 90 95
 Lys Val Met Asp Ile Asn Asp Asn Ala Pro Val Phe
 100 105

<210> 1391
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 1391
 Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Arg Ile Arg Ser Asp Cys Glu Val Ser Gln
 20 25 30
 Arg Ile Thr Tyr Arg Ile Ser Gly Ala Gly Ile Asp Arg Pro Pro Tyr
 35 40 45
 Gly Val Phe Thr Ile Asn Pro Arg Thr Gly Glu Ile Asn Ile Thr Ser
 50 55 60
 Val Val Asp Arg Glu Ile Thr Pro Leu Phe Leu Ile His Cys Arg Ala
 65 70 75 80
 Leu Asn Ser Arg Gly Glu Asp Leu Glu Arg Pro Leu Glu Leu Arg Val
 85 90 95
 Lys Val Met Asp Val Asn Asp Asn Pro Pro Val Phe
 100 105

<210> 1392
 <211> 108
 <212> PRT
 <213> Mus musculus

```

<400> 1392
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1           5           10           15
Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
 20           25           30
Pro Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
 35           40           45
Gly Ile Phe Ile Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
 50           55           60
Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
 65           70           75           80
Leu Asn Ala Gln Gly Gln Asp Leu Glu Asn Pro Leu Glu Leu Arg Val
 85           90           95
Arg Val Met Asp Ile Asn Asp Asn Pro Pro Val Phe
 100           105

```

<210> 1393
 <211> 108
 <212> PRT
 <213> Mus musculus

```

<400> 1393
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1           5           10           15
Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
 20           25           30
Pro Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
 35           40           45
Gly Ile Phe Ile Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
 50           55           60
Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
 65           70           75           80
Leu Asn Ala Gln Gly Gln Asp Leu Glu Asn Pro Leu Glu Leu Arg Val
 85           90           95
Arg Val Met Asp Ile Asn Asp Asn Pro Pro Val Phe
 100           105

```

<210> 1394
 <211> 108
 <212> PRT
 <213> Homo sapiens

```

<400> 1394
Arg Trp Ala Pro Ile Pro Ala Ser Leu Met Glu Asn Ser Leu Gly Pro
 1           5           10           15
Phe Pro Gln His Val Gln Gln Ile Gln Ser Asp Ala Ala Gln Asn Tyr
 20           25           30
Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Phe
 35           40           45

```

```

Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly Asp Ile Phe Cys Thr Arg
  50          55          60
Ser Ile Asp Arg Glu Lys Tyr Glu Gln Phe Ala Leu Tyr Gly Tyr Ala
  65          70          75          80
Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr Pro Leu Pro Leu Ile Ile
          85          90          95
Lys Ile Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
          100          105

```

<210> 1395
 <211> 108
 <212> PRT
 <213> Mus musculus

```

<400> 1395
Arg Trp Ala Pro Ile Pro Cys Ser Leu Met Glu Asn Ser Leu Gly Pro
  1          5          10          15
Phe Pro Gln His Ile Gln Gln Ile Gln Ser Asp Ala Ala Gln Asn Tyr
          20          25          30
Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Tyr
          35          40          45
Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly Asp Ile Tyr Cys Thr Arg
  50          55          60
Ser Ile Asp Arg Glu Gln Tyr Asp Gln Phe Leu Val Tyr Gly Tyr Ala
  65          70          75          80
Thr Thr Ala Asp Gly Tyr Ala Pro Asp Tyr Pro Leu Pro Leu Leu Phe
          85          90          95
Lys Val Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
          100          105

```

<210> 1396
 <211> 108
 <212> PRT
 <213> Bos tarus

```

<400> 1396
Arg Trp Ala Pro Ile Pro Cys Ser Leu Met Glu Asn Ser Leu Gly Pro
  1          5          10          15
Phe Pro Gln His Val Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr
          20          25          30
Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Phe
          35          40          45
Asn Leu Phe Phe Ile Glu Lys Asp Thr Gly Asp Ile Phe Cys Thr Arg
  50          55          60
Ser Ile Asp Arg Glu Gln Tyr Gln Glu Phe Pro Ile Tyr Ala Tyr Ala
  65          70          75          80
Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr Pro Leu Pro Leu Val Phe
          85          90          95
Lys Val Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
          100          105

```

<210> 1397
 <211> 108

<212> PRT
 <213> Homo sapiens

<400> 1397
 Arg Trp Ala Pro Ile Pro Cys Ser Met Leu Glu Asn Ser Leu Gly Pro
 1 5 10 15
 Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Thr Ala Gln Asn Tyr
 20 25 30
 Thr Ile Tyr Tyr Ser Ile Arg Gly Pro Gly Val Asp Gln Glu Pro Arg
 35 40 45
 Asn Leu Phe Tyr Val Glu Arg Asp Thr Gly Asn Leu Tyr Cys Thr Arg
 50 55 60
 Pro Val Asp Arg Glu Gln Tyr Glu Ser Phe Glu Ile Ile Ala Phe Ala
 65 70 75 80
 Thr Thr Pro Asp Gly Tyr Thr Pro Glu Leu Pro Leu Pro Leu Ile Ile
 85 90 95
 Lys Ile Glu Asp Glu Asn Asp Asn Tyr Pro Ile Phe
 100 105

<210> 1398
 <211> 108
 <212> PRT
 <213> Canis familiaris

<400> 1398
 Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
 1 5 10 15
 Phe Pro Leu Phe Leu Gln Gln Ile Gln Ser Asp Thr Ala Gln Asn Tyr
 20 25 30
 Thr Ile Phe Tyr Ser Ile Arg Gly Pro Gly Val Asp Arg Glu Pro Lys
 35 40 45
 Asn Leu Phe Tyr Val Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
 50 55 60
 Pro Val Asp Arg Glu Glu Tyr Glu Ser Phe Glu Leu Ile Ala Phe Ala
 65 70 75 80
 Thr Thr Pro Asp Gly Tyr Thr Pro Glu Leu Pro Leu Pro Leu Val Ile
 85 90 95
 Arg Ile Glu Asp Glu Asn Asp Asn Tyr Pro Ile Phe
 100 105

<210> 1399
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1399
 Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
 1 5 10 15
 Phe Pro Leu Phe Leu Gln Gln Val Glu Ser Asp Ala Ala Gln Asn Tyr
 20 25 30
 Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
 35 40 45
 Asn Leu Phe Tyr Ile Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
 50 55 60


```

Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
65          70          75          80
Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
          85          90          95
Arg Val Glu Asp Glu Asn Asp Asn His Pro Val Phe
          100          105

```

```

<210> 1400
<211> 108
<212> PRT
<213> Mus musculus

```

```

<400> 1400
Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
1          5          10          15
Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr
          20          25          30
Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Ala Asp Gln Glu Pro Leu
          35          40          45
Asn Trp Phe Phe Ile Glu Arg Asp Thr Gly Asn Leu Tyr Cys Thr Arg
          50          55          60
Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
65          70          75          80
Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
          85          90          95
Lys Ile Glu Asp Glu Asn Asp Asn Tyr Pro Leu Phe
          100          105

```

```

<210> 1401
<211> 108
<212> PRT
<213> Bos taurus

```

```

<400> 1401
Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
1          5          10          15
Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr
          20          25          30
Thr Ile Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
          35          40          45
Asn Leu Phe Phe Ile Glu Arg Asp Thr Gly Asn Leu Tyr Cys Thr Gln
          50          55          60
Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
65          70          75          80
Ser Thr Ala Asp Gly Tyr Ser Ala Asp Phe Pro Leu Pro Leu Pro Ile
          85          90          95
Arg Val Glu Asp Glu Asn Asp Asn His Pro Ile Phe
          100          105

```

```

<210> 1402
<211> 108
<212> PRT
<213> Homo sapiens

```

```

<400> 1402

```

Arg	Trp	Ala	Pro	Ile	Pro	Cys	Ser	Met	Gln	Glu	Asn	Ser	Leu	Gly	Pro
1				5					10					15	
Phe	Pro	Leu	Phe	Leu	Gln	Gln	Val	Glu	Ser	Asp	Ala	Ala	Gln	Asn	Tyr
		20						25					30		
Thr	Val	Phe	Tyr	Ser	Ile	Ser	Gly	Arg	Gly	Val	Asp	Lys	Glu	Pro	Leu
		35					40					45			
Asn	Leu	Phe	Tyr	Ile	Glu	Arg	Asp	Thr	Gly	Asn	Leu	Phe	Cys	Thr	Arg
	50					55					60				
Pro	Val	Asp	Arg	Glu	Glu	Tyr	Asp	Val	Phe	Asp	Leu	Ile	Ala	Tyr	Ala
65					70					75					80
Ser	Thr	Ala	Asp	Gly	Tyr	Ser	Ala	Asp	Leu	Pro	Leu	Pro	Leu	Pro	Ile
			85						90					95	
Arg	Val	Glu	Asp	Glu	Asn	Asp	Asn	His	Pro	Val	Phe				
			100					105							